

PENTAGON RENOVATION PROGRAM

On Cost, On Schedule, Built for the Next 50 Years

http://renovation.pentagon.mil 703-697-HELP (4357)







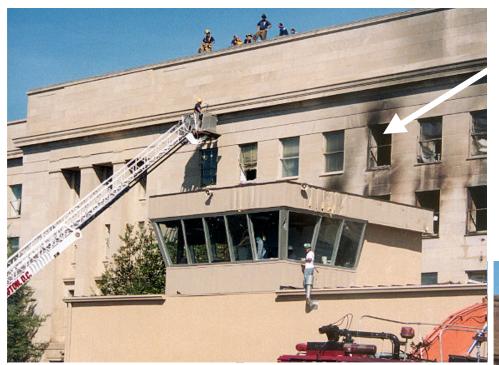
When the building collapsed the structure was held together by the "web" of steel columns that are all bolted in place along the floors.



Structural steel, running through all five floors, strengthens the walls around the blast resistant window units. A geo-technical mesh is stretched between the steel tubes to prevent debris from becoming shrapnel in the event of an external explosion.

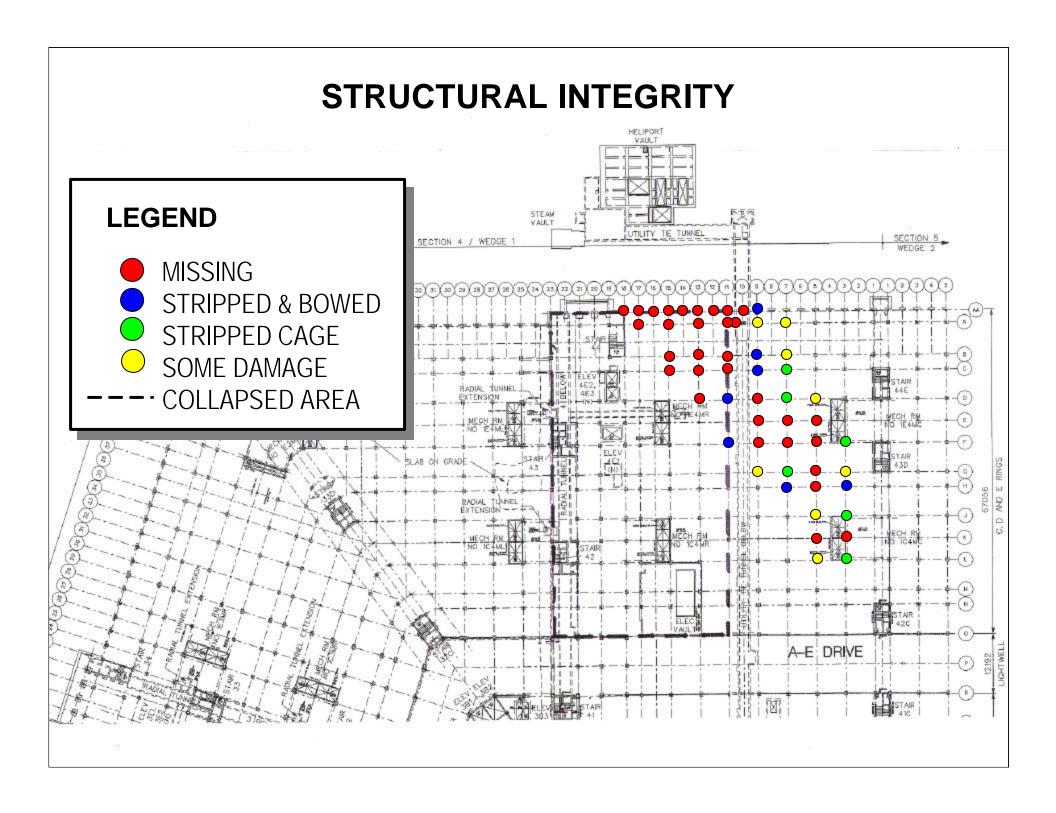


Some of the blast resistant windows in Wedge 1 did not shatter despite the enormous pressure placed on them by the impact.



The old windows in Wedge 2 were shattered by the impact. Blast resistant windows in Wedge 1 are still in place directly above where the plane entered the Pentagon.



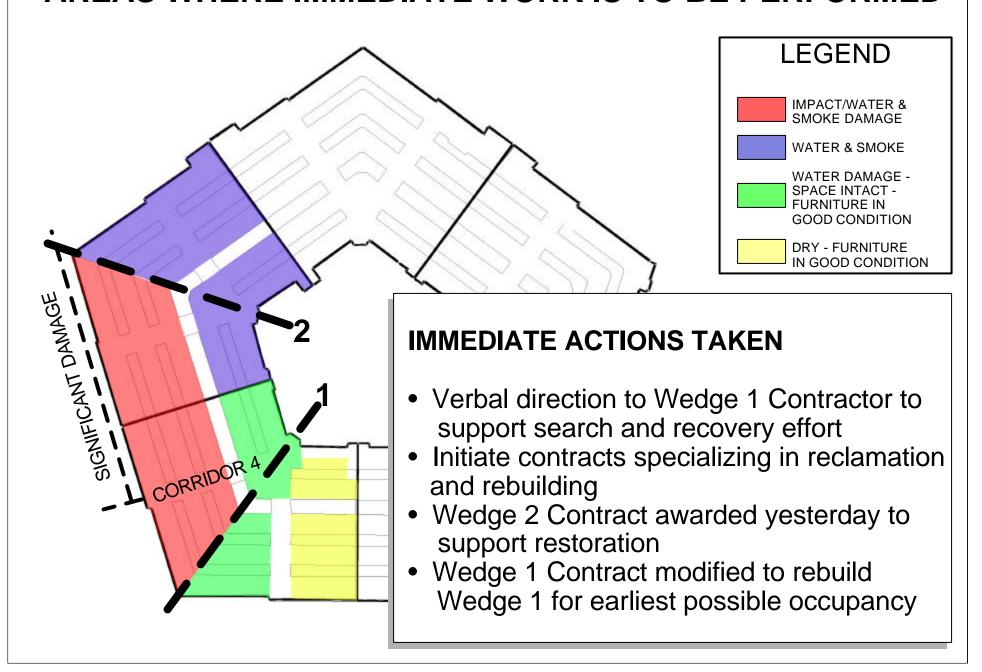




Despite columns
being sheared off
by the plane
entering the
Pentagon, portions
of the building did
not collapse due to
the structural steel
reinforcing the
External walls.

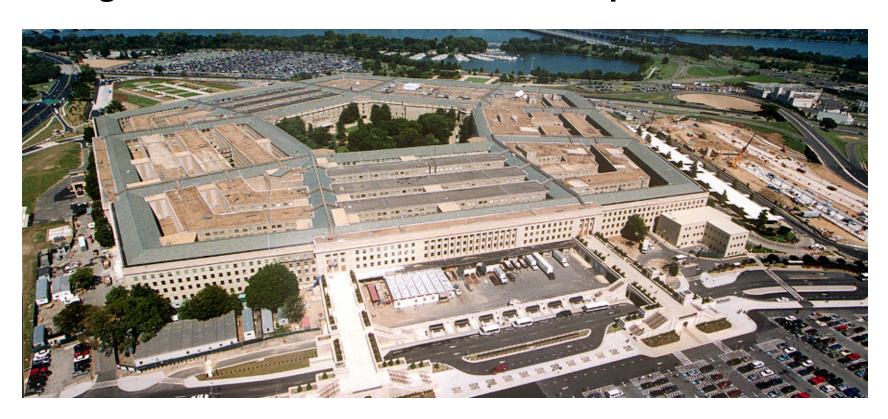
Temporary columns were erected to provide support where the original columns had been demolished.

AREAS WHERE IMMEDIATE WORK IS TO BE PERFORMED



Wedge 2-5 Contract Highlights

- Award Value \$145M
- Potential Total Value \$758M
- Building Space 4,000,000 square feet
- Performance Period 2001-2012
- Design-Build Contractor Hensel Phelps Construction Co.



SECURITY IMPROVEMENTS MADE BY PENTAGON RENOVATION PROGRAM

REMOTE DELIVERY FACILITY COMPLETE

METRO ENTRANCE FACILITY UNDER CONSTRUCTION

SOUTH TERRRACE BRIDGES COMPLETE

REPLACEMENT OF EXTERIOR

HIGH PRESSURE WATER LINES COMPLETE

REDUNDANT EXTERIOR

COMMUNICATIONS COMPLETE

BLAST RESISTANT WINDOWS CONCURRENT WITH RENOVATION

TEMPERED GLASS WINDOWS CONCURRENT WITH RENOVATION

STEEL REINFORCEMENT FOR

EXTERIOR WALLS CONCURRENT WITH RENOVATION

KEVLAR CLOTH BACKING FOR

EXTERIOR WALLS CONCURRENT WITH RENOVATION

MONITORING & CONTROL

SYSTEM CONCURRENT WITH RENOVATION

BUILDING OPERATIONS AND

CONTROL CENTER COMPLETE

FIRE SPRINKLERS COMPLETE

AUTOMATIC FIRE DOORS CONCURRENT WITH RENOVATION

COMPLIANCE WITH FIRE SAFETY

CODE/ADA COMPLIANCE CONCURRENT WITH RENOVATION

WEDGE 1 & WEDGES 2-5 CONTRACTORS

WEDGE 1

AMEC

ACECO LLC

FACCHINA CONST., INC.

BRAGUNIER MASONRY CONST., INC.

GLODE IRON CONST. CO.

KEY WOODWORKING, INC

PROSPECT WATERPROOFING CO.

SWINGING DOOR, INC.

C.J. COAKLEY

ROMEN MOAIC & TILE CO.

JOHN J. KIRLIN, INC.

SINGLETON ELECTRIC CO.

CAPCO CONTRACTING CO.

CURTIS EQUIPMENT CO.

MUFTI INTERNATIONAL, INC.

ROSH CONST.

BALCO

BETA CONSTRUCTION

LINEL SIGNATURE SKYLITE

OVERHEAD DOOR OF DC

WON DOR

ERNST LEE TILE CO.

ZANES SPECIALTIES

ROCKVILLE PARTITIONS, INC.

TRISTATE

ROBB ASSOCIATES

WINSTEAD

JCC CONSTRUCTION

JEWELL

WEDGES 2-5

HENSEL PHELPS CONSTRUCTION CO.

SHALOM BARANES ASSOCIATES

HDR ARCHITECTURE, INC.

SOUTHLAND INDUSTRIES

MC DEAN